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# CENTRAL INTELLIGENCE AGENCY PHOTOGRAPHIC INTELLIGENCE CENTER

# JOINT PHOTOGRAPHIC INTELLIGENCE OAK REPORT ARMY - NAVY - CIA - AIR FORCE

#### PREFACE

THIS IS AN OAK REPORT INSTALLMENT AND REPRESENTS ONE OF MAN'S FIRST ATTEMPTS TO PRODUCE AN INTELLIGENCE REPORT FROM SATELLITE PHOTOGRAPHY. QUALITY OF UNOBSCURED COVERAGE RANGES FROM GOOD TO VERY GOOD AND INCLUDES APPROXIMATELY 1.5 MILLION SQUARE MILES OF THE SINO-SOVIET BLOC. OF THIS COVERAGE AN ESTIMATED 25 PERCENT IS CLOUD FREE, WITH LIGHT SCATTERED TO HEAVY CLOUDS COVERING THE REMAINDER. BECAUSE OF THE SMALL SCALE WHICH ESTIMATEDLY RANGES FROM 1/330,000 TO 1/450,000, THE NATURE OF THE OPERATING CYCLE, AND THE CHARACTERISTICS OF THE PANORAMIC PHOTOGRAPHY ACHIEVED, IT IS EXPECTED THAT A PRELIMINARY REPORT OF THIS MISSION WILL NOT BE COMPLETED FOR SEVERAL WEEKS. AVERAGE GROUND OBJECT RESOLUTION IS ESTIMATED IN THE ORDER OF 20 TO 30 FEET ON THE SIDE.

EVEN IN PRELIMINARY EXPLOITATION CLOSE COLLABORATION IS REQUIRED AMONG THE PHOTO INTERPRETERS, PHOTOGRAMMETRISTS, PHOTO LABORATORY PERSONNEL, SCIENTIFIC INTELLIGENCE AND COLLATERAL DATA SPECIALISTS. BECAUSE OF THE PECULIAR MENSURATION PROBLEMS POSED BY THE MATERIAL, ALL MEASUREMENTS NOTED HEREIN SHOULD BE TREATED AS TENTATIVE UNTIL FULL PHOTOGRAMMETRIC ANALYSIS CAN BE ACCOMPLISHED. THE AMOUNT OF GEOGRAPHIC-ECONOMIC DATA AND THE NUMBER OF INTELLIGENCE TARGETS ARE CONSIDERABLE, AND THE POTENTIAL USE OF THE MATERIAL FOR CHARTING AND POSSIBLE GEODETIC ASSISTANCE AFPEARS TO BE GOOD.

THE MOST STRINGENT USE OF THE NEED TO KNOW PRINCIPLE WITHIN THE SECURITY LIMITATIONS OF THE TALENT-KEYHOLE SYSTEM MUST APPLY TO ALL WOULD-BE CONSUMERS OF RAW MATERIALS AS WELL AS FINISHED REPORTS RESULTING FROM THIS MISSION.

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## INTRODUCTION

THIS IS THE SECOND IN A SERIES OF CAK REPORTS DEALING WITH PRIORITY ITEMS OF INTELLIGENCE STONIFICANCE APPEARING ON PHOTOGRAPHY OF MISSION 900%. THIS REPORT COVERS THE OAK-REPORTING PERIOD FROM 1500 HOURS: 26 AUGUST 1960; THROUGH 1500 HOURS: 27 AUGUST 1960.

OAK PHOTOGRAPHIC INTELLIGENCE TEAMS ARE ENGAGED IN A TWO PHASE EXPLOITATION OF MISSION 9009. THE FIRST PHASE IS CONCERNED WITH AN INITIAL SCAN OF PHOTOGRAPHY AND AN INDEXING OF ALL ITEMS OF INTELLIGENCE SIGNIFICANCE. A COMPLETE INDEX OF INTELLIGENCE ITEMS WILL BE PUBLISHED AFTER COMPLETION OF THE OAK REPORTING PERIOD. THE SECOND PHASE IS CONCERNED WITH A PRELIMINARY ANALYSIS OF PRIORITY ITEMS UNCOVERED IN THE INTITAL SCAN. LIESE (TEMS ARE THE SUBJECT OF THE DAILY OAK REPORTS.

THE DAILY OAK REPORTS WILL CONSIST. BASICALLY. OF A BRIEF INTRODUCTION AND SUMMARY. FOLLOWED BY A CISTING OF PRIOPERY ITEMS WHICH HAVE BEEN THE SUBJECT OF PRELIMINARY ANALYSIS. THUSE LIEMS WILL BE REPORTED IN THE FOLLOWING PREASSIGNED CATEGORISE.

- A. GUIDED MISSILES AND ELECTRONICS
- B. NUCLEAR ENERGY
- C. AIRFIELDS
- D. ALLITARY INSTALLATIONS
- E. PORTS AND HARBORS
- F. MAJOR COMPLEXES
- G. MISCELLANEOUS ITEMS

FOR FURPOSES OF CONSISTENCY: THE ABOVE CATEGORIES WILL APPEAR IN THE OAK REPORT EVERY DAY, EVEN IF NO PRIORITY ITEMS ARE LISTED WITHIN THE CATEGORY. FURTHER INFORMATION RESULTING FROM ADDITIONAL PRELIMINARY ANALYSIS OF PREVIOUSLY REPORTED TYEMS WILL BE INCORPORATED IN SUBSEQUENT OAK REPORTS.

25X1D Approved For Release 2005/02/10 : CIA-RDP78T05164A000100030002-1 Approved For Release 2005/02/10 : CIA-RDP78T05164A000100030002-1

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25X1D

25X1D

#### SUMMARY

AS OF 1500 HOURS, 27 AUGUS	T 1960, APPROXIMATELY 50 PERCENT OF	25X1D
MISSION 9009 HAD BEEN SCAN		20/(10
		25X1D
	EXTENSIVE CLOUD COVER WAS PRIMARILY	
RESPONSIBLE FOR THE LARGE	PERCENTAGE INCREASE IN AREA SCANNED DURING	
THE CURRENT REPORTING PERI	OD.	

IT SHOULD BE NOTED THAT PRELIMINARY ANALYSIS HAS NOT BEEN COMPLETED ON ALL PRIORITY ITEMS WITHIN THE AREA SCANNED. ITEMS ON WHICH PRELIMINARY ANALYSIS HAS BEEN COMPLETED ARE INCLUDED IN THIS REPORT.

SUMMARIZED BELOW ARE THE MAJOR ITEMS OF INTELLIGENCE INTEREST.

#### GUIDED MISSILES

MISSILE TEST CENTER: KAPUSTIN YAR/VLADIMIROVKA
PRELIMINARY ANALYSIS OF SURFACE-TO-AIR MISSILE FACILITIES
DISCLOSES LITTLE CHANGE SINCE
PHOTOGRAPHY. ALL SAM FACILITIES EXCEPT THE INITIAL SAM
LAUNCH COMPLEX APPEAR ACTIVE.

OF PARTICULAR SIGNIFICANCE IS THE FACT THAT LAUNCH
COMPLEX E, UNDER CONSTRUCTION MAY NOT
YET BE COMPLETE AND OPERATIONAL. IN ADDITION, THE RAIL—
SERVED SUPPORT AREA UNDER CONSTRUCTION AT LAUNCH COMPLEX

IS NOT YET COMPLETE, AND THE RAIL
LINE IS BEING EXTENDED TO THE RANGE CONTROL CENTER.

PRELIMINARY ANALYSIS CONTINUES ON ALL AREAS EXCEPT THE SURFACE-TO-AIR MISSILE FACILITIES. RESULTS OF THESE ANALYSES WILL BE REPORTED IN FORTHCOMING OAK REPORTS.

#### SAM SITES

TWO NEW HEXADIC SA-2 SAM SITES UNDER CONSTRUCTION WERE CONFIRMED. THIS BRINGS THE TOTAL TO DATE TO SEVEN NEW HEXADIC SITES CONFIRMED AND FOUR POSSIBLE SITES UNDER CONSTRUCTION.

#### AIRFIELDS

EIGHT AIRFIELDS WITH HARD OR PARTIALLY HARD SURFACE RUNWAYS (ONLY ONE IN EXCESS OF 9,000 FEET) WERE OBSERVED DURING THE REPORTING PERIOD. IN ADDITION, SIX DIRT STRIPS OR SOD LANDING AREAS WERE OBSERVED.

25X1D

QAK Date	9009 - Part 2 Par No. 588/60-KH e of Info. 18 August 1960 29 August 1960	
25X2		
DETAILS		
	NARY ANALYSIS WAS COMPLETED ON THE FOLLOWING ITEMS DURING RENT OAK REPORTING PERIOD.	
A •	GUIDED MISSILES AND ELECTRONICS	
5X1D	1. MISSILE TEST CENTER, KAPUSTIN YARZVLADIMIROVKA  THE ENTIRE RANGEHEAD OF THE MISSILE TEST CENTER IS COVERED BY MISSION 9009, WHICH SHOWS RELATIVELY FEW CHANGES	25X1D
	SPITE OF SCATTERED CEOUDS: IT IS APPARENT THAT THE FUNCTIONAL DESIGNATIONS OF MAJOR FACILITIES GIVEN IN CIAZE FICZUS 8760 ARE STILL VALID.	
5X1D	OF PARTICULAR SIGNIFICANCE IS THE FACT THAT LAUNCH COMPLEX E. UNDER CONSTRUCTION MAY NOT YET BE COMPLETE AND OPERATIONAL. IN ADDITION, THE RAIL— SERVED SUPPORT AREA UNDER CONSTRUCTION AT LAUNCH COMPLEX C IS NOT YET COMPLETE. AND THE RAIL LINE IS BEING EXTENDED TO THE RANGE CONTROL CENTER. THE EVIDENCE OF RUNWAY CONSTRUCTION LAST OF VLADIMIROVKA AIRFIELD IS CONFIRMED. THE COMPLETED RUNWAY: WHICH IS STILL UNDER CONSTRUCTION, WILL BE AT LEAST 8.200 FEET LONG.	25X1D 25X1D
	RESULTS OF THE PRELIMINARY ANALYSIS OF THE SAM LAUNCH FACILITIES ARE INCLUDED IN THIS PAPE OF THE OAK REPORT. DETAILS ON OTHER FACILITIES IN THE MISSILE TEST CENTER WILL BE COVERED IN SUBSEQUENT PARTS OF THE REPORT.	
	THE SURFACE-TO-AJR MISSILE FACILITIES, LOCATED NORTH OF KAPUSIIN YAR, ARE VIRTUALLY UNCHANGED SEE CIA/PIC/JR-14/60). THE ONLY NEW CONSTRUCTION EVIDENT IS ONE BUILDING LOCATED IN THE SW CORNER OF THE R & D LAUNCH AREA. THE ONLY OTHER CHANGE NOTED IS A FIREDREAK AND PROBABLE SECURITY FENCE WHICH NOW ENCLOSE INSTRUMENTATION/CONTROL SITE 8, SOUTH OF THE NEW-TYPE SAM LAUNCH AREA.	25X1D
	ALL -AM FACILITIES EXCEPT THE INITIAL SAM LAUNCH COMPLEX	

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25X1

25X1

APPEAR ACTIVE, AND EQUIPMENT IS VISIBLE ON THE FIVE PADS IN THE MARSHALING AREA. HOWEVER, THE FOUR TENT AREAS APPEAR UNOCCUPIED.

#### 2. HEXADIC SA-2 SAM SITES

A TOTAL OF 8 SA-2 SAM SITES AND 1 SAM SUPPORT FACILITY HAVE BEEN IDENTIFIED IN THE VICINITY OF STALINGRAD DURING THE CURRENT REPORTING PERIOD. A TABULATION OF THE SAM SITES FOLLOWS.

SITE	COORD	DISTANCE/DIRECTION	STATUS
NO		FROM STALINGRAD	
1	49 Ø1N - 44 59E	25 NM NE	MID-STAGE CONST
2*	48 59N ~ 44 4ØE	17 NM NNE	COMPLETE
3*	48 51N - 44 19E	11.5 NM NW	COMPLETE
4*	48 40N - 44 10E	14.5 NM WSW	COMPLETE
5*	48 27N - 4 <b>4</b> 19E	18 NM SSW	COMPLETE
5	48 17N - 4 <b>4</b> 38E	25 NM SSE	MID-STAGE CONST
7*	48 27N - 44 5ØE	20 NM SE	COMPLETE
*8	48 43N ~ 44 55E	16 NM E	COMPLETE
	* PREVIOUSLY IDEN	TIFIED ON PHOTOGRA	PHY
	THE SAM SUPPORT	FACILITY, WHICH IS COMP	LETE, IS LOCATED
	AT 48 52N = 44	38E, 10 NM NE OF STALING	RAD. THIS
	FACILITY WAS PE	REVIOUSLY IDENTIFIED ON	PHOTOGRAPHY.

3. LIMITED COVERAGE OF THE URALS AREA COUPLED WITH COMPLETE OVERCAST IN THE AREA COVERED PREVENTED A SEARCH FOR ICBM LAUNCH SITES.

#### B. NUCLEAR ENERGY

NO ITEMS DURING THE CURRENT REPORTING PERIOD

#### C. AIRFIELDS

AS ANTICIPATED IN OAK 9009 - PART 1. NEW MATERIALS HAVE PERMITTED A GENERALIZED COUNT OF AIRCRAFT IN SOME INSTANCES. WHERE THIS HAS BEEN POSSIBLE, THE GENERALIZED COUNT HAS BEEN LISTED BELOW UNDER THE APPROPRIATE AIRFIELD.

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		9 - Part 2 Par No. 588/60-KH Info. 18 August 1960 29 August 1960	
25X1D	1.	ABGANEROVO AIRFIELD  48 09N = 44 07E  4,500 X 3,900 FT SOD LANDING AREA (MEASUREMENTS FROM ASSOTW)	
25X1D	2•	ATBASAR AIRFIELD 51 50N - 68 20E	
	3•	5,000 X 1,000 FT SOD LANDING AREA (MEASUREMENTS FROM ASSOTW) KAPUSTIN YAR AIRFIELD 48 40N = 45 44E	
25X1D	[	3,500 X 300 FT E/W SOD RUNWAY	25X1I
25X1		1 LARGE AIRCRAFT OF UNDETERMINED TYPE ON S SIDE OF RUNWAY.	20/(11
25X1D	4•	KOSTROMA AIRFIELD  57 48N - 41 00E	
25X1		MEASUREMENTS FROM PHOTOGRAFITE	25X1[
25X1 25X1		RUNWAY SURFACE ON PHOTOGRAPHY APPEARED TO BE 3,300 FT CONCRETE AND 1,900 FT DIRT. NO APPARENT CHANGE FROM PHOTOGRAPHY.	
25X1D	5 s	KYZYL-AGACH AIRFIELD  39 ØØN = 48 48E	
		6.600 X 200 FT NW/SE CONCRETE RUNWAY (MEASUREMENTS FROM ASSOTW)	

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	Dase Of	1110. 10 August 1900	29 August 1960	
	6.	MARINOVKA AIRFIELD 48 39N ∞ 43 49F		
25X1D				
25X1		7.500 X 220 FT E/W CONCRETE RUNWAY (MEASUREMENTS FROM MISSION		
25X1D		POSSIBLE PLANNED EXTENSION OF RUNI CLEARING OF 1,800 FT AND 3,000 FT RUNWAY. NO OTHER APPARENT CHANGES PHOTOGRAPHY	ON EITHER END OF	25X1
25X1D	7•	SALYANY AIRFIELD 39 39N - 48 59E		
		6,600 X 260 FT E/W CONCRETE RUNWAY 3,300 X 260 FT NE/SW CONCRETE RUNW (MEASUREMENTS FROM ASSOTW)	Y VAY	
		AIRFIELD IS 80 PERCENT CLOUD-COVER MAIN RUNWAY VISIBLE. THE REPORTED COMPLETELY OBSCURED BY CLOUDS.	RED, WITH ONLY W END OF D SECONDARY RUNWAY IS	
25X1D	8•	SREDNYAYA AKHTUBA AIRFIELD 48 44N - 44 52E		
		SOD LANDING AREA		
25X1D 25X1		3 NATURAL-SURFACE RUNWAYS WERE APPENDING BL DISCERNIBLE ON THE PHOTOGRAPHY	IT THESE ARE NOT	25X1
25X1D	9•	STALINGRAD GUMRAK AIRFIELD 48 47N - 44 21E		
25X1		6,500 X 300 FT ENE/WSW RUNWAY 6,400 X 300 FT SE/NW DIRT RUNWAY (MEASUREMENTS FROM PHOTOGRA	PHY	25X1D
25X1		SURFACE OF FIRST RUNWAY ON TO BE 3,100 FT CONCRETE AND 3,400 CHANGE FROM PHOTOGRAPHY.	PHOTOGRAPHY APPEARED FT DIRT. NO APPARENT	25X1

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25V1D	10.	TASHKENT AIRFIELD 41 18N - 69 19E			
25X1D					
25X1		4,500 X 210 FT NE/SW CON (MEASUREMENTS FROM	CRETE RUNWAY PHOTOGRAPHY		25X1D
		11 LARGE PROBABLE AIRCRA IN PARKING AREAS. 3 OF THE OTHERS. ALL ARE AT	THESE ARE SOME	WHAT LARGER THAN	
	11.	TASHKENT SOUTH AIRFIELD			
25X1D		41 15N 69 16E			
25X1		9,800 X 200 FT E/W CONCR (MEASUREMENTS FROM	ETE RUNWAYPHOTOGRAPHY		25X1D
		7 LARGE PROBABLE AIRCRAF IN PARKING AREA. 3 OF T	T OF UNDETERMINERSE ARE POSSI	NED TYPE LOCATED BLY SWEPT-WING.	
	12.	VOLOGDA AIRFIELD 59 21N = 39 49E			
25X1D					
		3,450 X 320 FT NE/SW CON- (MEASUREMENTS FROM ASSOT			
		A DIRT RUNWAY 3,650 X 279 VISIBLE ON THE PHOTOGRAPH		IN ASSOTW IS NOT	
	13.	VOLOGDA NORTH AIRFIELD			
25X1D	[	59 18N - 39 51E			
	L	SOD LANDING AREA			
	14•	VOLGODA NORTHEAST AIRFIE 59 16N - 39 55E	LD		
25X1D					
		SOD LANDING AREA			
	15•	AIRFIELDS PREVIOUSLY REPO	ORTED BUT NOT I	LOCATED OR CLOUD-	
		DZAUDZHIKAU AIRFIELD			

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GUDERMES AIRFIELD 42 23N = 46 06E

1. DZHAMBUL MILITARY AREA

ORDZHONIKIDZEVSKAYA AIRFIELD 43 19N - 45 01E

## D. MILITARY INSTALLATIONS

25X1D		42 54N = 71 23E	
25X1D		THE BARRACKS AREA, TRAINING CAMP, AND MOTOR POOL APPEAR RELATIVELY UNCHANGED SINCE PHOTOGRAPHY	2 <b>5%</b> XI
25X1D	2•	KAMYSHIN OFFICERS TANK TRAINING SCHOOL  50 05N - 45 24E	
25X1D		NO APPARENT CHANGES FROM PHOTOGRAPHY	252%31/12
		TS AND HARBORS  ITEMS DURING THE CURRENT REPORTING PERIOD	
		OR COMPLEXES	
25X1D	1.	ARYS 42 25N ~ 68 58E	
		ARYS IS COMPLETELY COVERED BY CLOUD-FREE PHOTOGRAPHY  THE ONLY APPARENT CHANGE SINCE PHOTOGRAPHY IS AN AREA OF CONSTRUCTION OF UNDETERMINED TYPE COVERING  APPROXIMATELY A CITY BLOCK ON THE SE EDGE OF THE CITY.	2 <b>5%</b> 1⁄4]

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25X1D	2. CHEREPOVETS 59 Ø7N - 37 55E  CHEREPOVETS IS APPROXIMATELY COMPARISON WITH TARGET MOSAIC	SHOWS	25X1A
	SUBSTANTIAL RESIDENTIAL GROWTH WORLD WAR II. REPORTED HIGHWAR RIVER DOES NOT EXIST. AREA OF IS CLOUD-COVERED.	AY BRIDGE ACROSS SHEKSNA	
25X1D	3. CHIMKENT 42 20N - 69 37E		
25X1D	CHIMKENT IS COMPLETELY COVERED THERE HAS BEEN RELATIVELY LITTED PHOTOGRAPHY RAIL—SERVED, HAS BEEN ADDED IN EXPANSION NOTED IN THE SE INDUMODERATE RESIDENTIAL EXPANSION	TLE CHANGE SINCE  A PROBABLE STORAGE SITE,  THE W PORTION. NO  JSTRIAL COMPLEX AREA.	25X1
	4. DZHAMBUL 42 54N ~ 71 23E		
25X1D	DZHAMBUL IS COMPLETELY COVERE	D PV CLOUD-EDEE DUOTOGRADUV	
25X1D 25X1D	THERE HAS BEEN RELATIVELY LITTED PHOTOGRAPHY  200 X 100 FT HAS BEEN ADDED TO	TLE CHANGE SINCE ONE BUILDING APPROXIMATELY	25X1
	5 • DZHEZKAZGAN 47 48N - 67 44E		
25X1D			
25X1D	DZHEZKAZGAN IS COMPLETELY COVE PHOTOGRAPHY THERE IS NO APPA PHOTOGRAPHY	ERED BY CLOUD-FREE ARENT CHANGE SINCE	25X1
25X1D	6. KAMYSHIN 50 05N - 45 24E		
	KAMYSHIN IS COMPLETELY COVEREICLOUDS THROUGHOUT THE AREA.	THERE HAS BEEN NO APPARENT	
25X1D	SIGNIFICANT CHANGE SINCE	PHOTOGRAPHY	2 <b>5</b> 51/4

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25X1D	7• YAROSLAVL 57 37N - 39 53E	
25X6	YAROSLAVL IS COMPLETELY COVER OBSCURE APPROXIMATELY 50 PERCAPPEARS TO HAVE BEEN CONSIDER INDUSTRIAL AND RESIDENTIAL APPROXIMATION OF THE EXTENT OF THE EXTEN	CENT OF THE CITY. THERE RABLE EXPANSION OF BOTH REAS SINCE WORLD WAR II CLOUD COVER PRECLUDES
	8. THE FOLLOWING PRIORITY 1 TARGETHE TIME OF PHOTOGRAPHY	GETS WERE CLOUD-COVERED AT
	KIROVABAD 40 41N - 46 22E	
	PETROZAVODSK 61 49N - 34 2ØE	
	GROZNYY 43 19N - 45 42E	
	MAKHACHKALA 42 58N - 47 27E	
	G. MISCELLANEOUS ITEMS	
25X2		
	2. URANIUM MINING ACTIVITY 6 NM 41 Ø8N - 7Ø Ø4E	NW OF ANGREN
25Y1D	ı l	

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MINING ACTIVITY: A PROBABLE PRIMARY CRUSHING MILL: AND ASSOCIATED HOUSING AND SUPPORT FACILITIES ARE IN THE MOUNTAINS NW OF ANGREN. ROAD LEADS FROM AREA. DOWN RIVER VALLEY, 10 ANGREN. NO APPARENT CHANGE SINCE PHOTOGRAPHY

25X1

25X1D

## ERRATA TO OAK 9009 - PART 1

CATEGORY C, ITEM 10, CHANGE

DZHAMBUL WEST AIRFIELD TO READ

DZHAMBUL EAST AIRFIELD

42 53N - 71 26E

INTA AIRFIELD 3N - 60 03E

42 51N - 71 22E

TO READ

INTA AIRFIELD 66 Ø3N - 6Ø Ø3E